

WHAT IS CLAIMED IS;

1. A method for detecting tracking short using a current value in an electric circuit comprises the steps of;

measuring the current value during the predetermined period to obtain a frequency distribution of the absolute value of the variation of the current value,

comparing the rate of the frequency in the predetermined variation range over the total frequency with the reference value,

and judging tracking short to have occurred when said rate is above said reference value.

2. A method for detecting tracking short using a current value on an electric circuit comprises the steps of;

measuring the absolute value of the current value at each unit time to obtain a current waveform which is used for judgement wherein the unit time is what is obtained by dividing the predetermined period into several,

calculating the variation of the current value at each unit time by getting the difference between the absolute value at each unit time and that at right previous or next unit time,

and judging tracking short to have occurred when the frequency of the variation in the predetermined range for the predetermined period satisfies the pre-set reference.

3. A method for detecting tracking short according to claim 2,

wherein there exist a plurality of said variation ranges, and said reference of frequency is set respectively for each of said plurality of ranges,

and wherein the said step of judging is judging tracking short to have occurred when each frequency in all the ranges satisfies the corresponding reference.

4. A method for detecting tracking short according to claim 2 or 3,
wherein said judgement is performed at every unit time for the predetermined period.

5. A method for detecting tracking short according to claim 2, 3 or 4,
further comprising dividing the unit time into several, obtaining the absolute value of peak value of current in each said divided time, calculating the difference between said value and the previous or next value of it, and initializing and restarting the said judgement step when the absolute value of said difference is below the predetermined reference value.